

FIG. 1

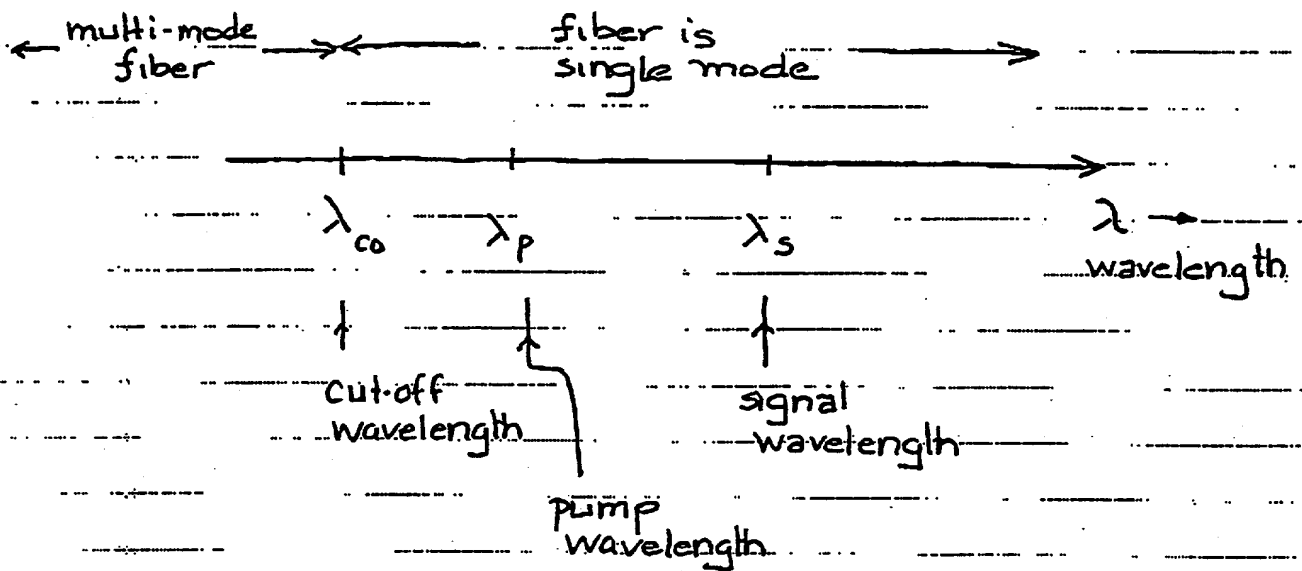


FIG. 2

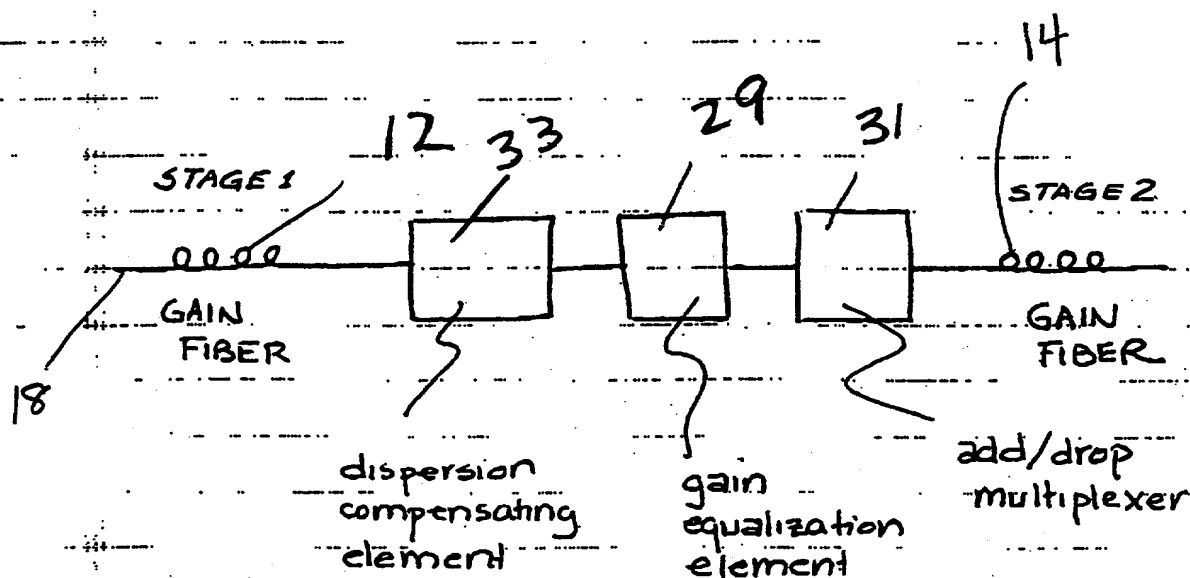


FIG. 3

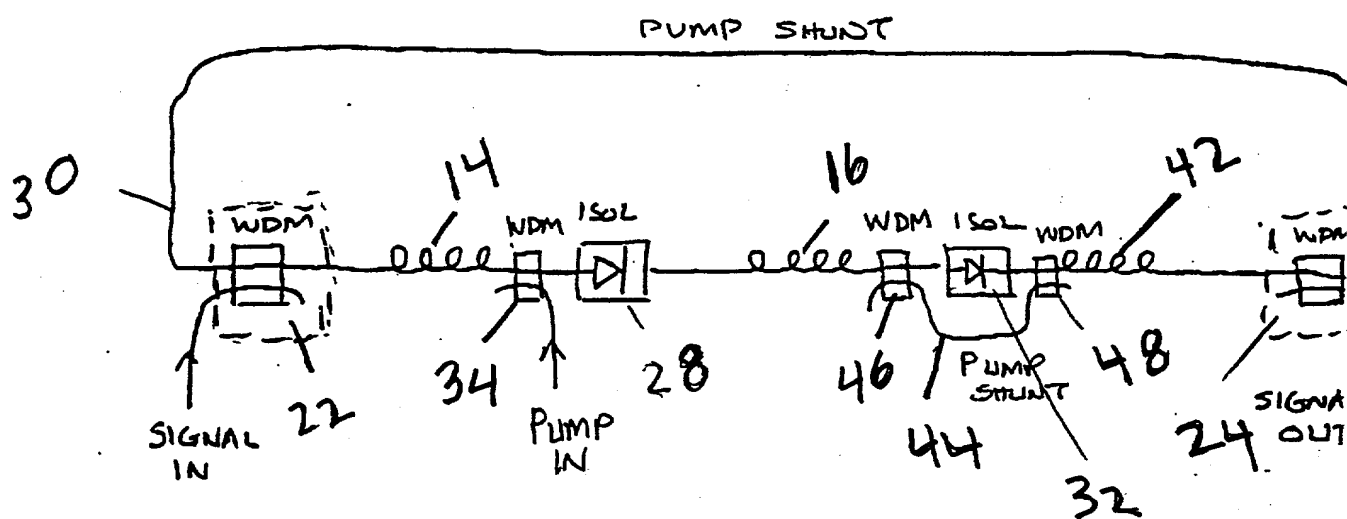
[illegible]

FIG. 4

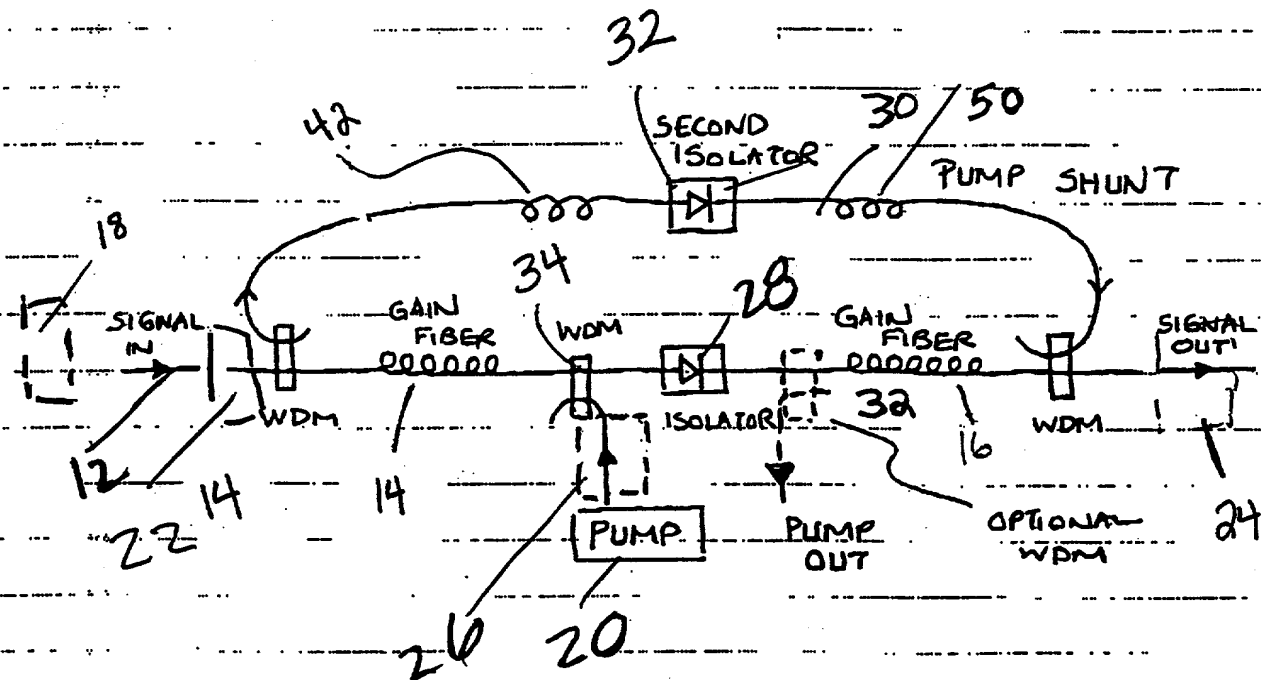


FIG. 5

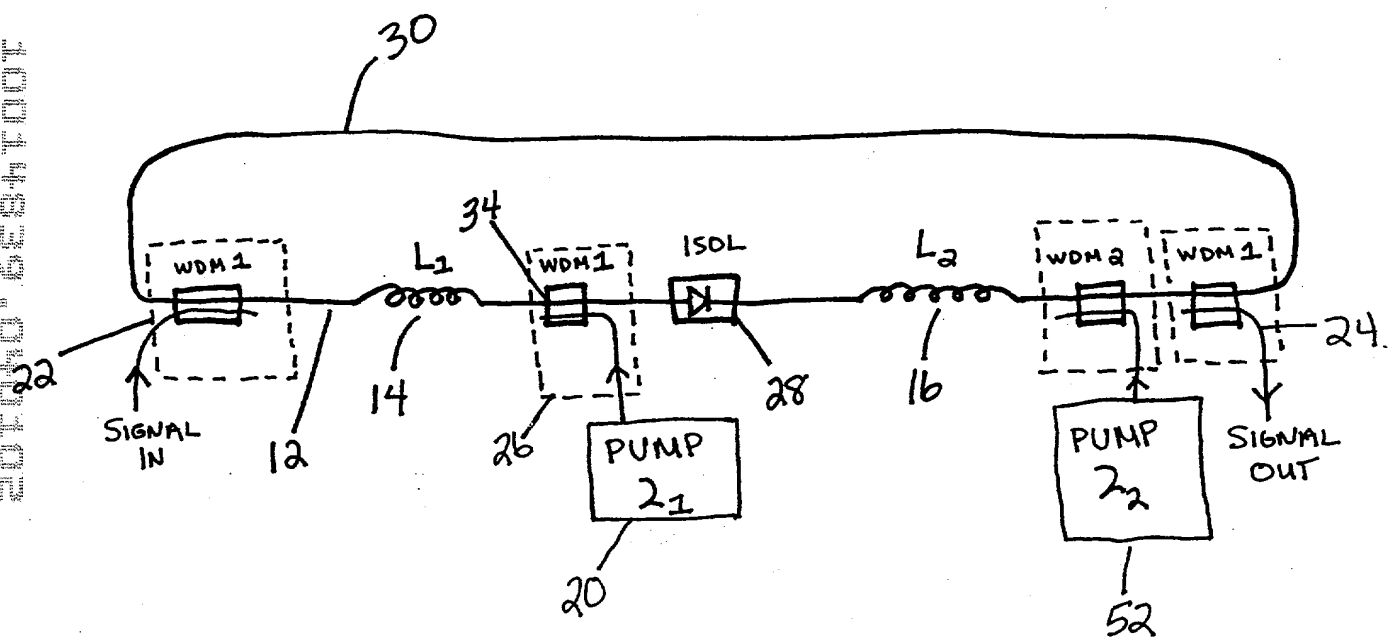


FIG. 6

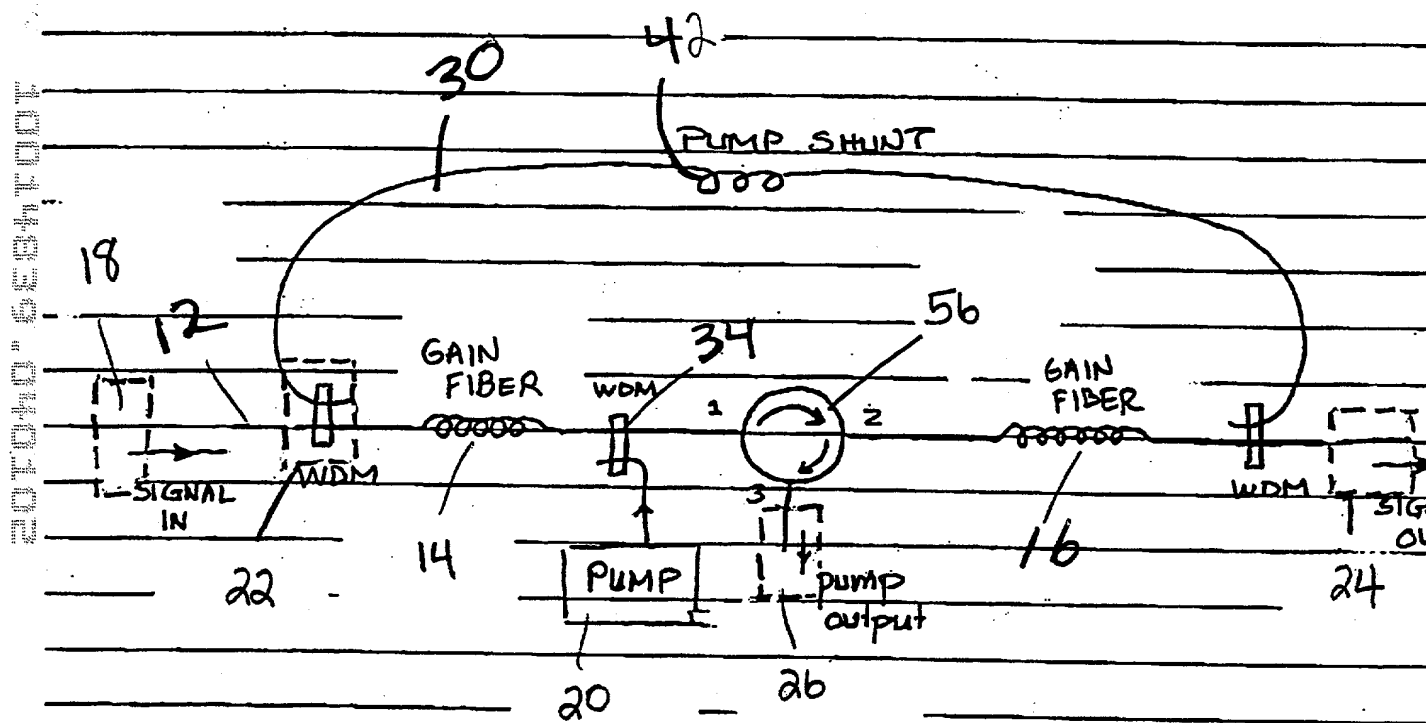


FIG. 7

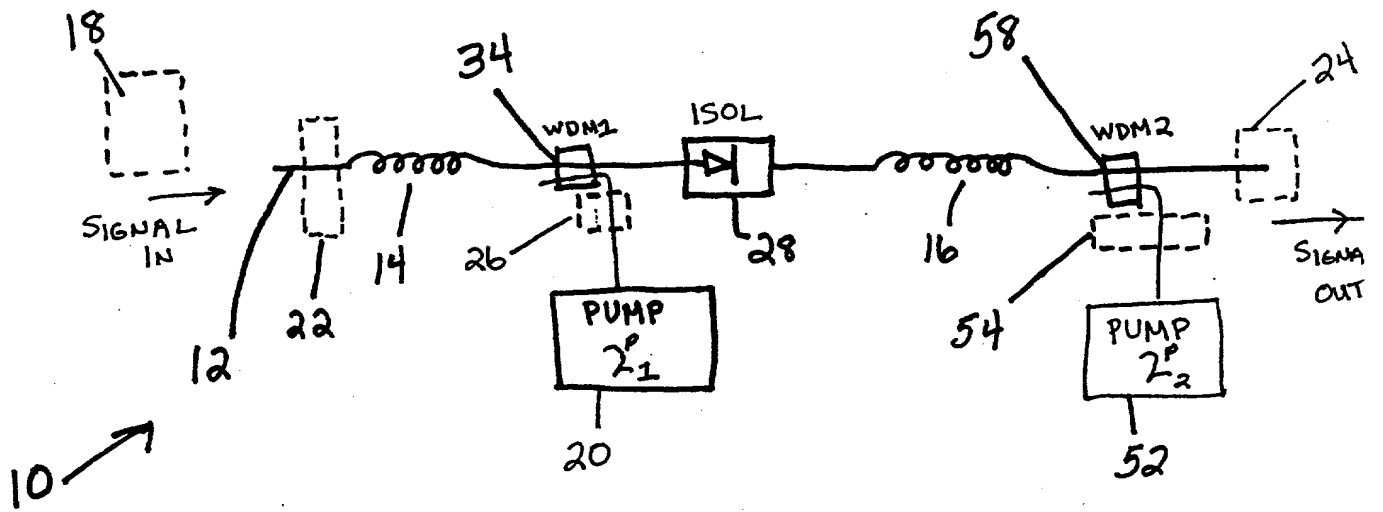


FIG. 8



FIG. 8b

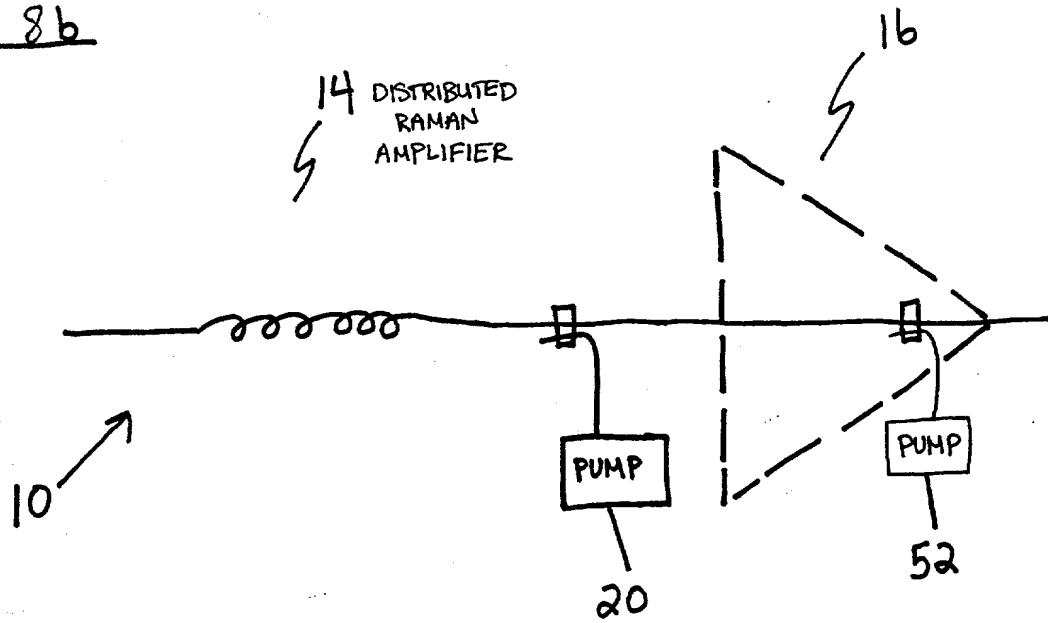
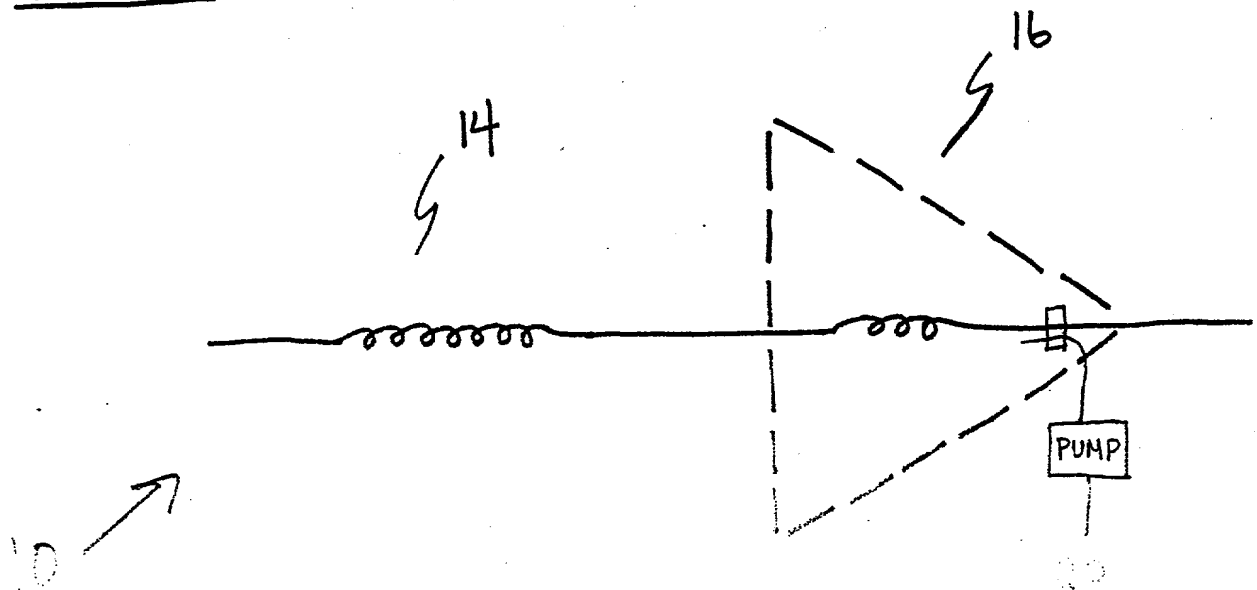


FIG. 8c



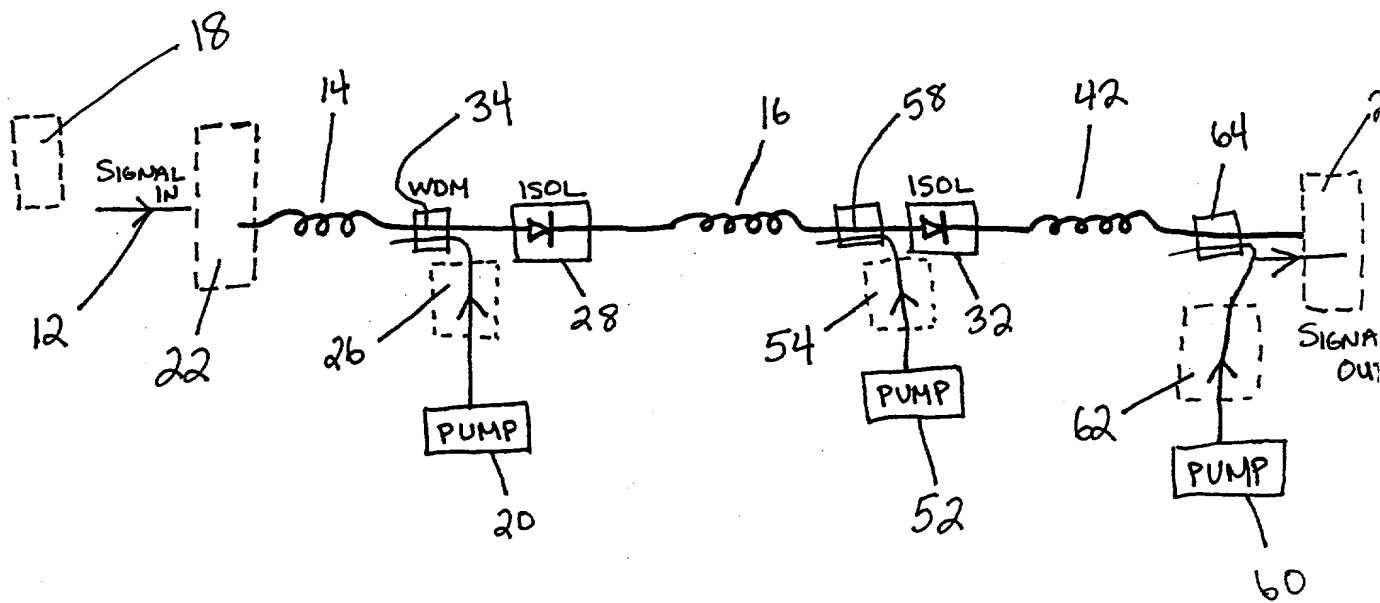


FIG. 9

PUMP

=

4 LD COMBINATION

PUMP  
SOURCE

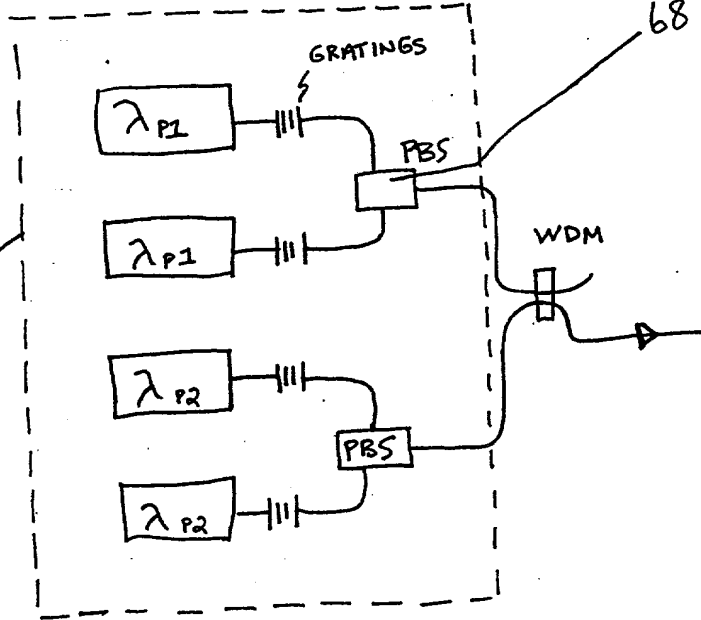


FIG. 10

# 8 LD COMBINATION

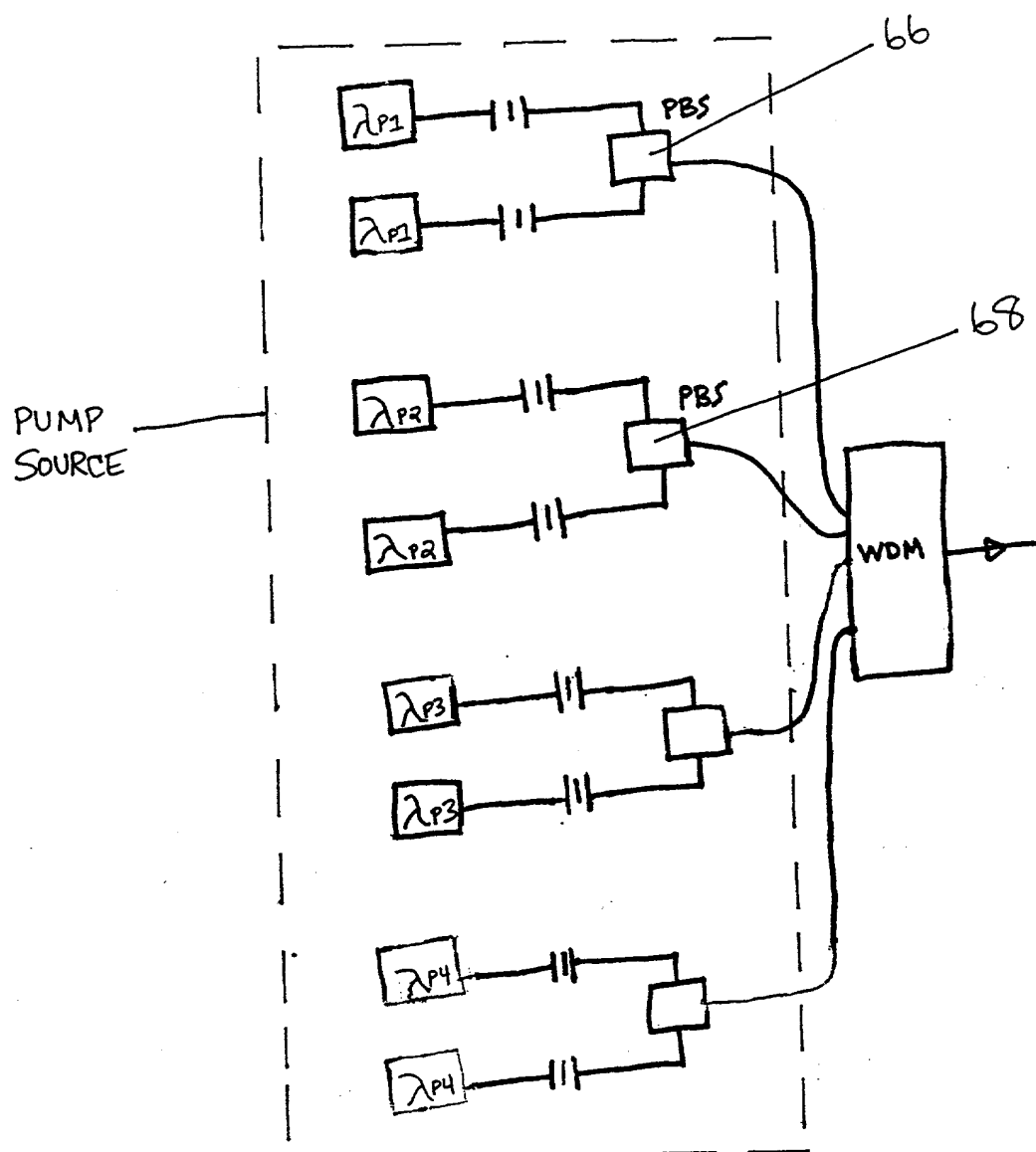


FIG. 11

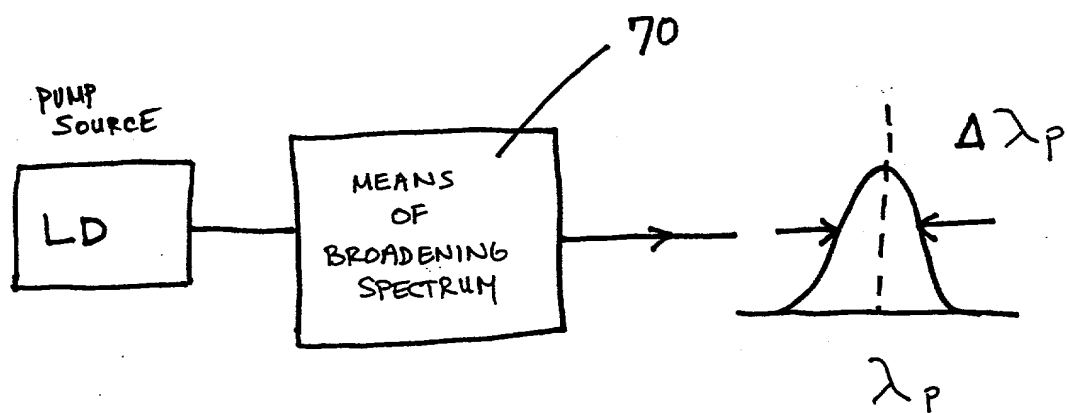
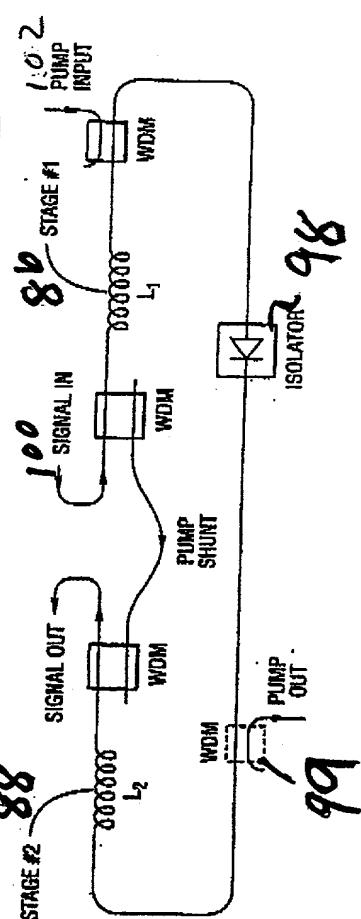
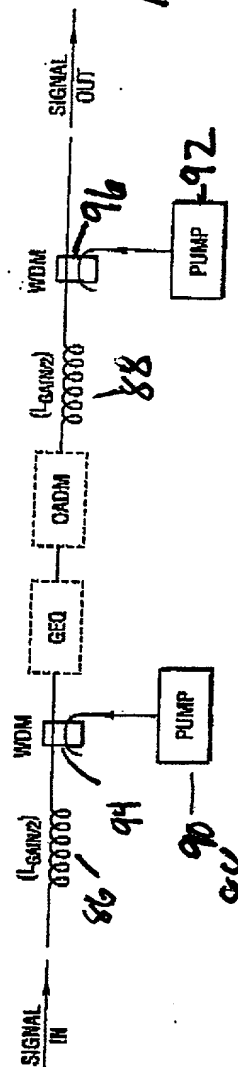
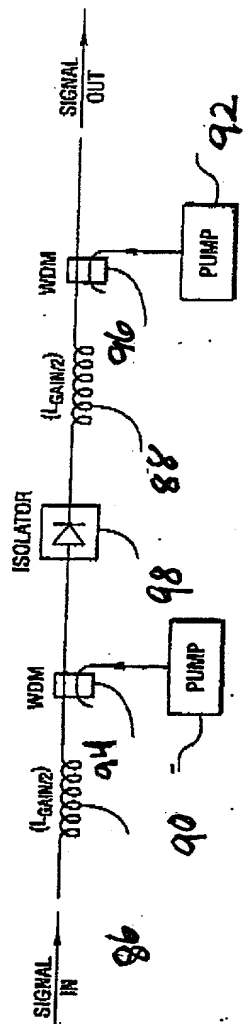


FIG. 12





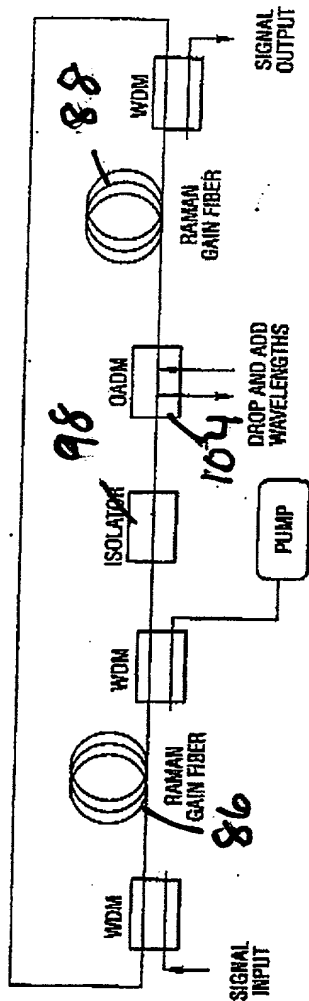


Fig 13(e)

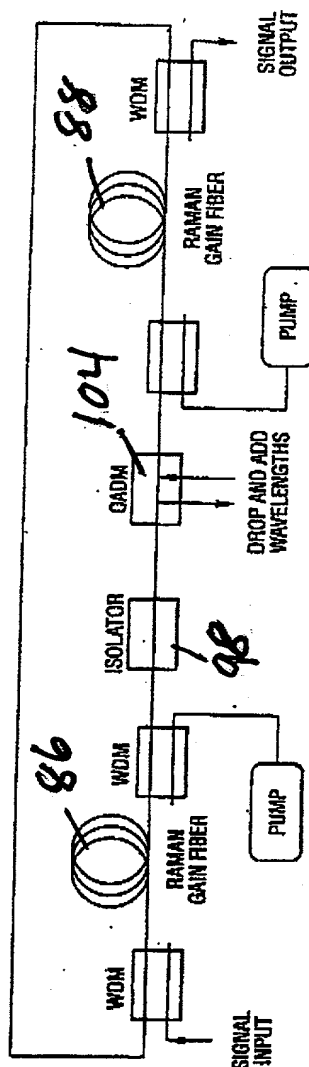
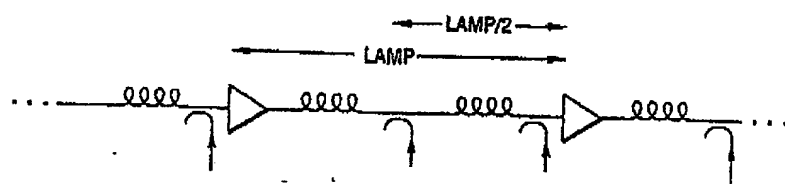


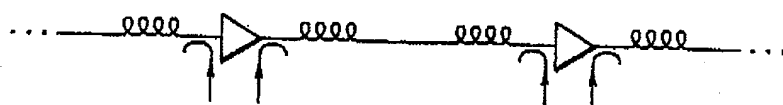
Fig 13(f)





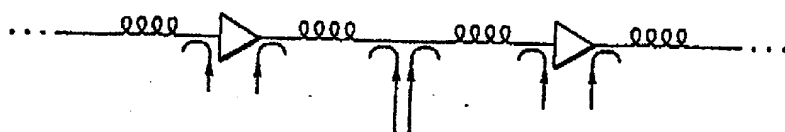
## PUMPS

Fig 14(a)



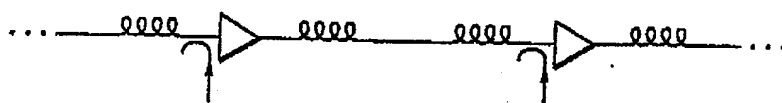
PUMPS

Fig 14(b)



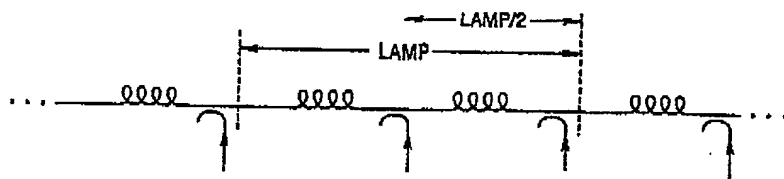
## PUMPS

Fig 14(c)



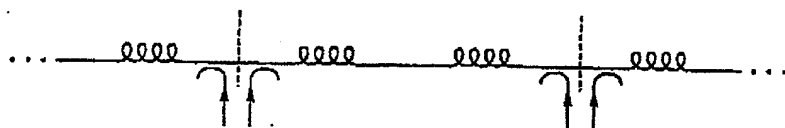
## Pumps

Fig 14(d)



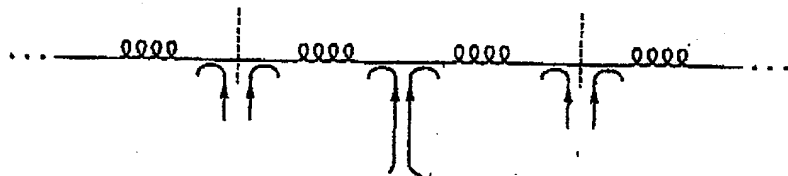
PUMPS

Fig. 15(a)



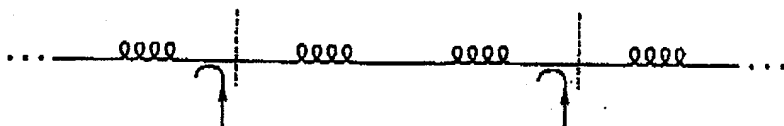
PUMPS

Fig. 15(b)



PUMPS

Fig. 15(c)



PUMPS

Fig. 15(d)



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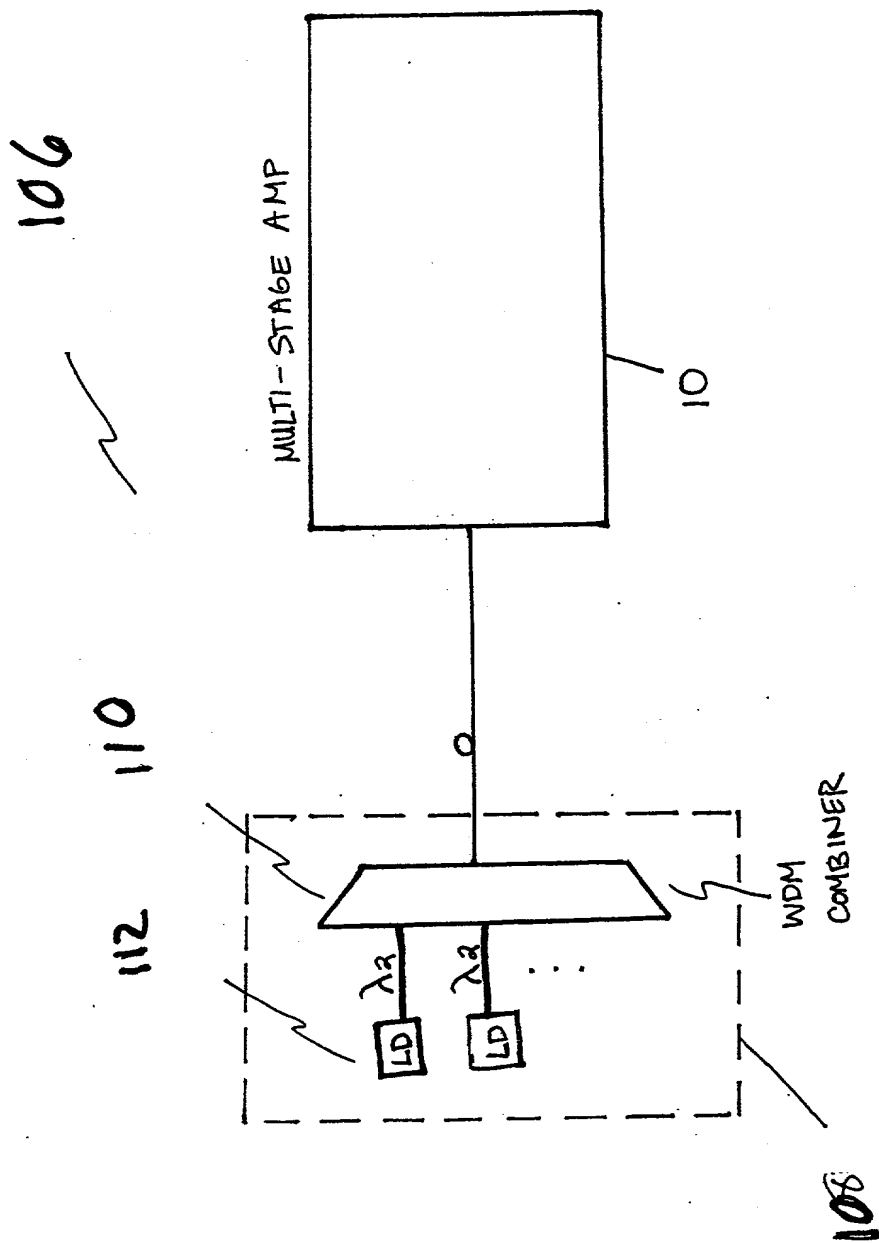
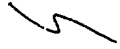


Fig. 16.

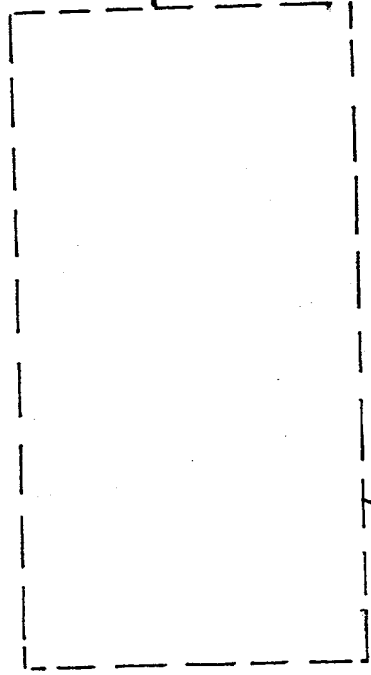
113



114

118

MULTI-STAGE AMP

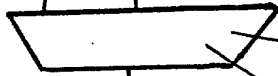


10

RCVR

RCVR

...



WDM  
SPLITTER

116

FIG. 17

120

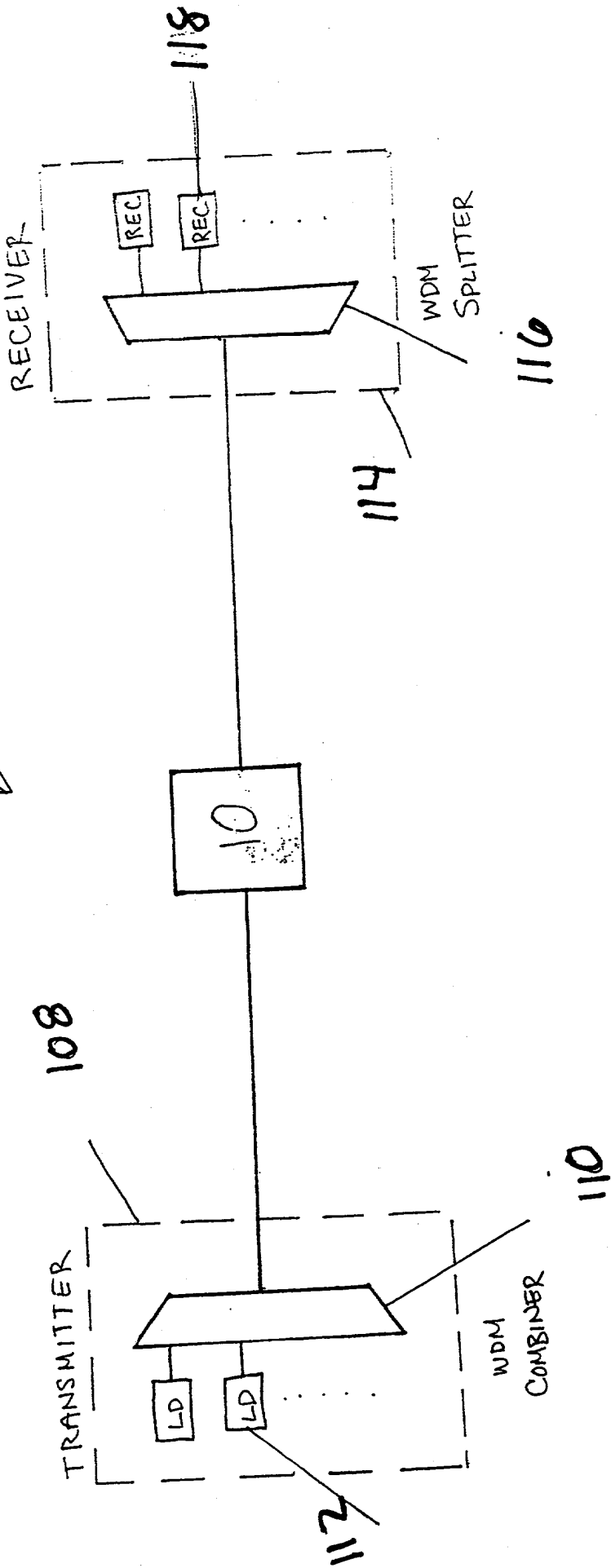


FIG. 18

122



124

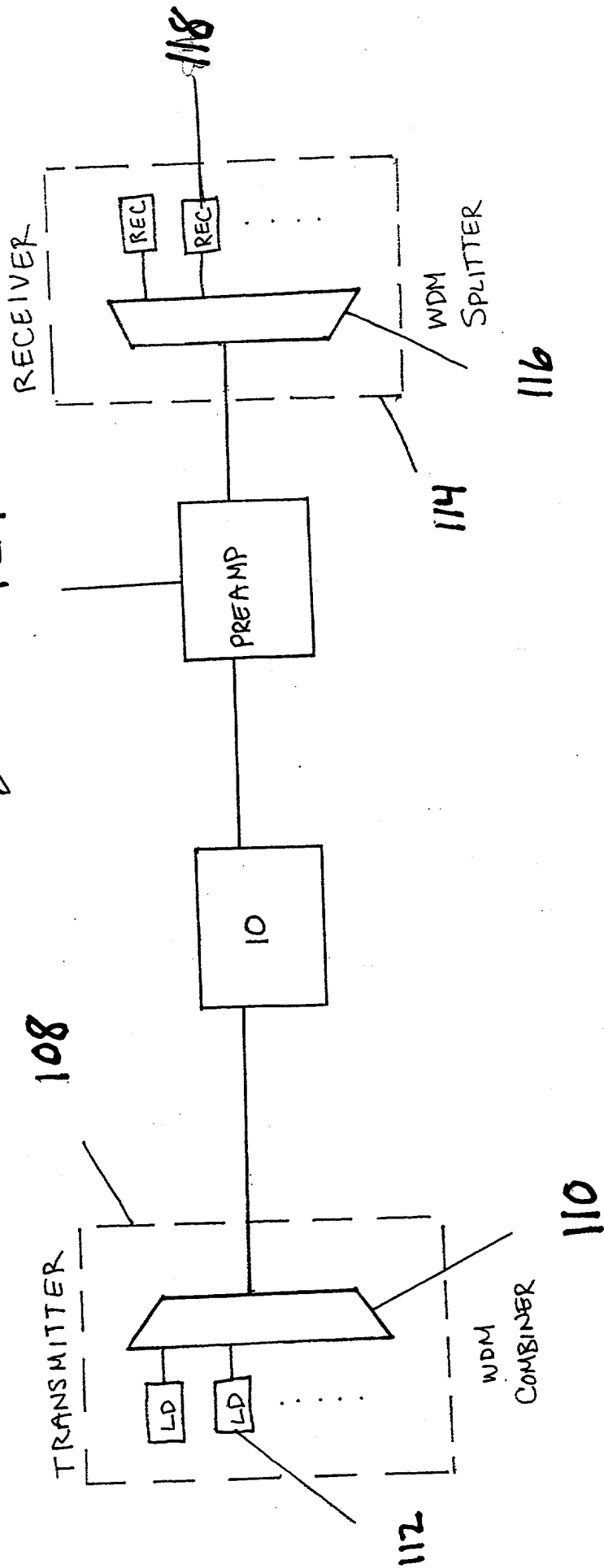


FIG. 19

126

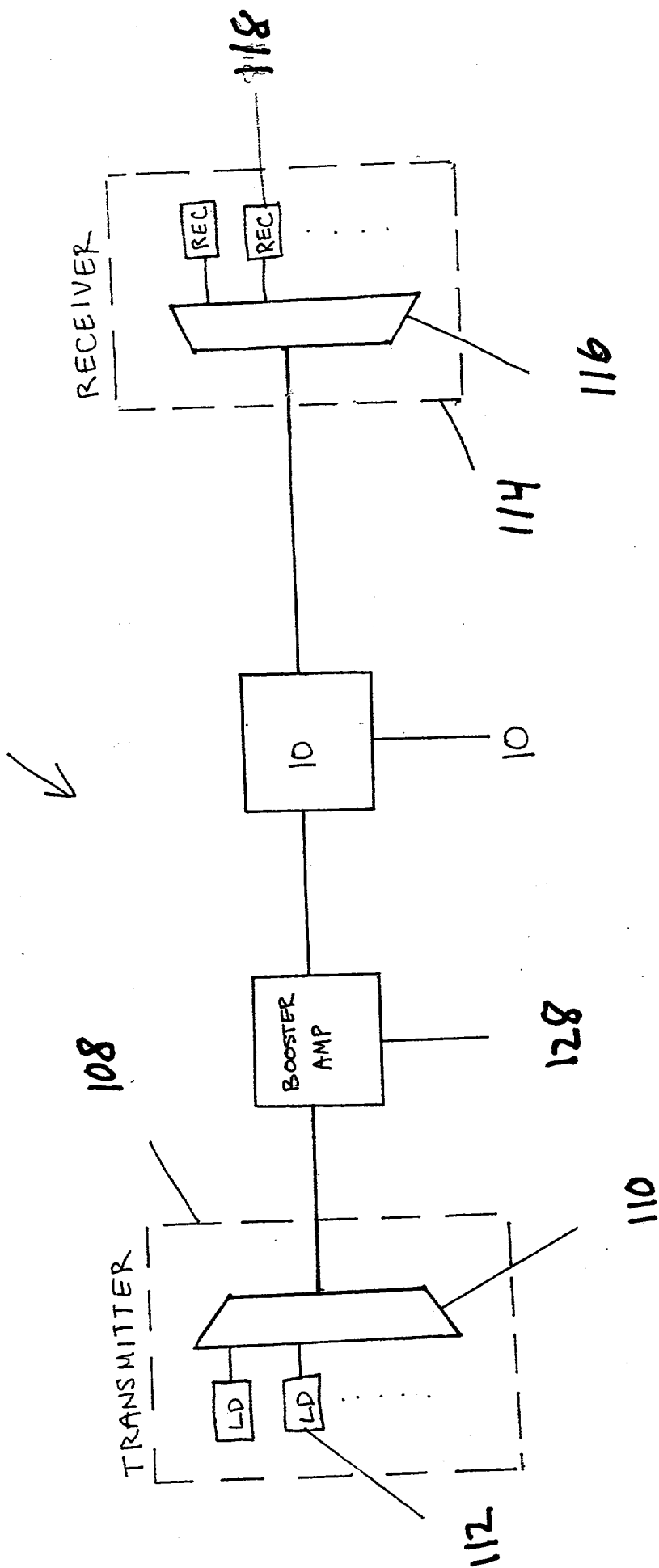


FIG. 20

130

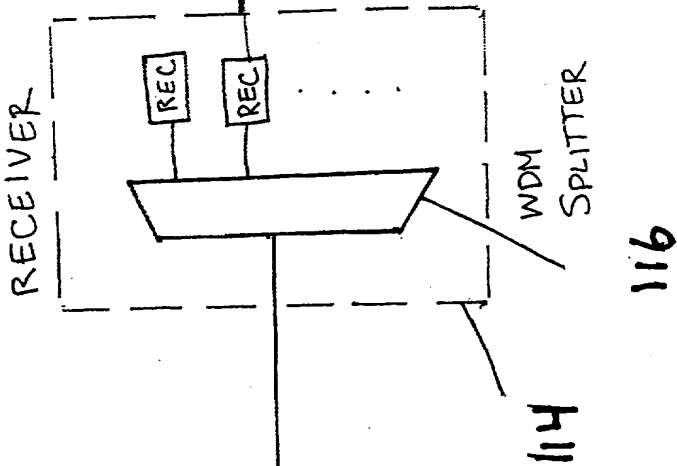
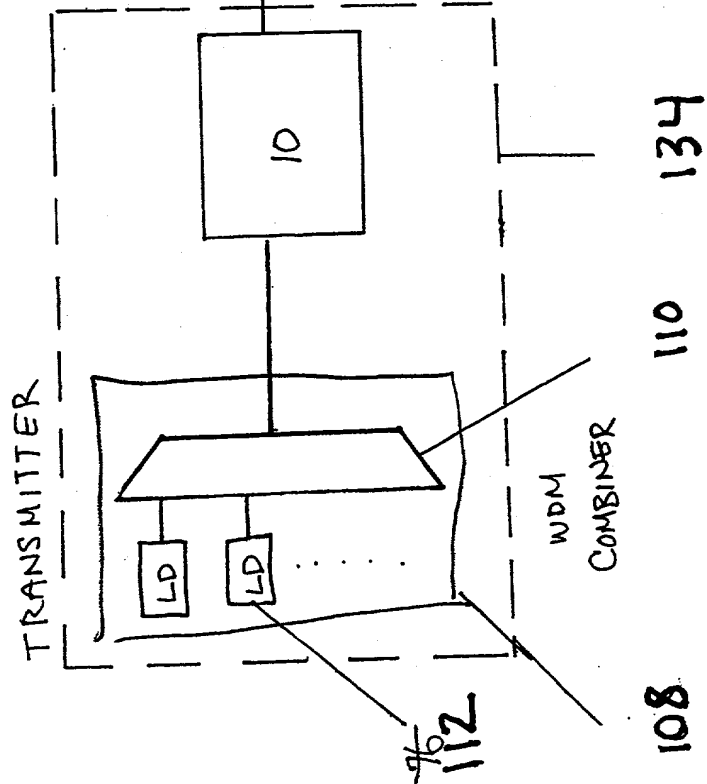


FIG. 21



136

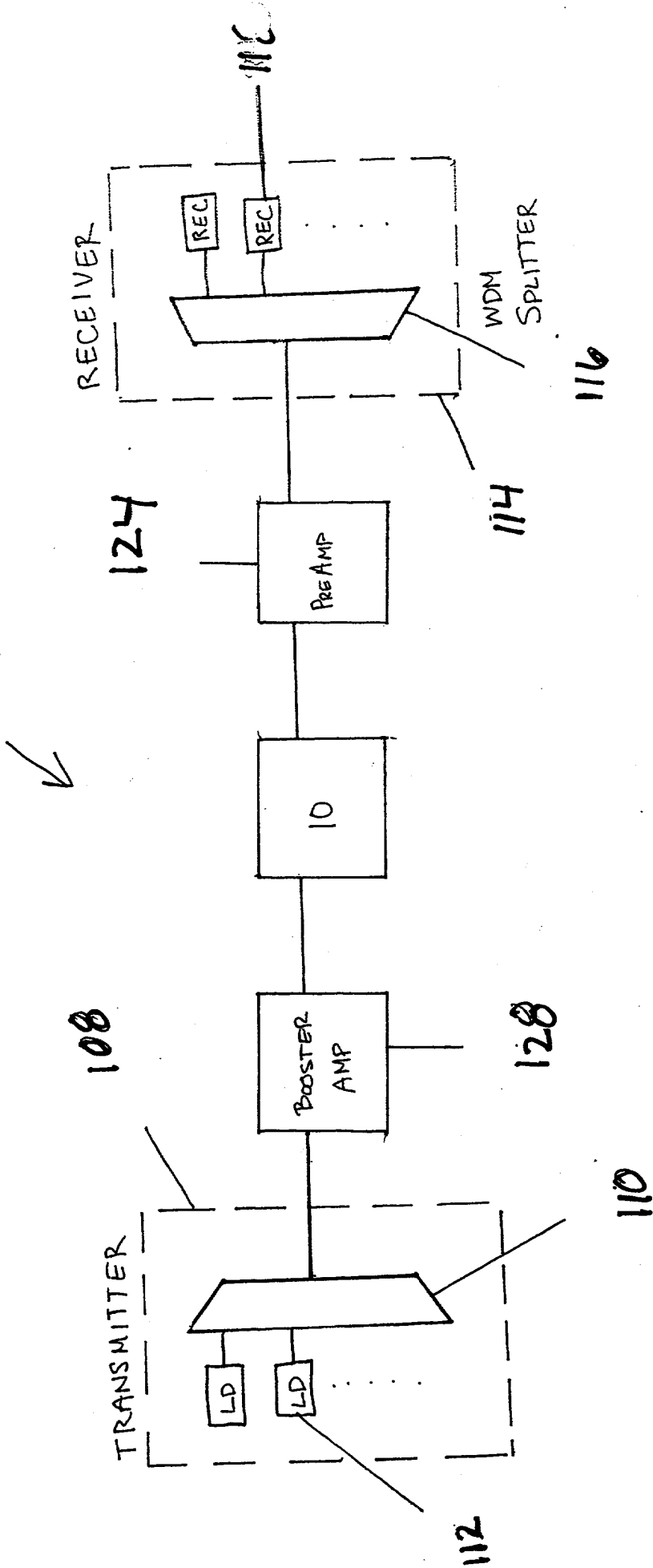


Fig. 22

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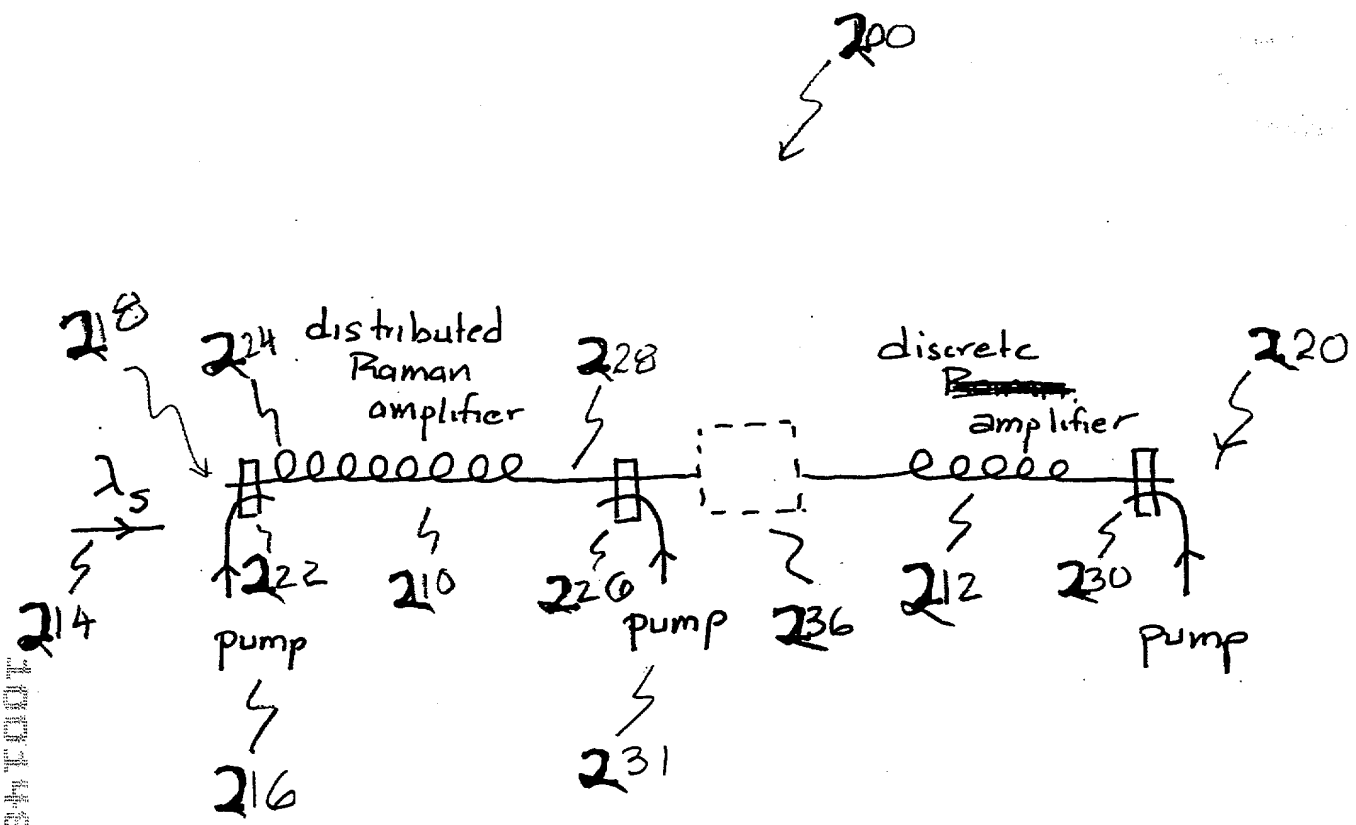


Fig 23 (a)

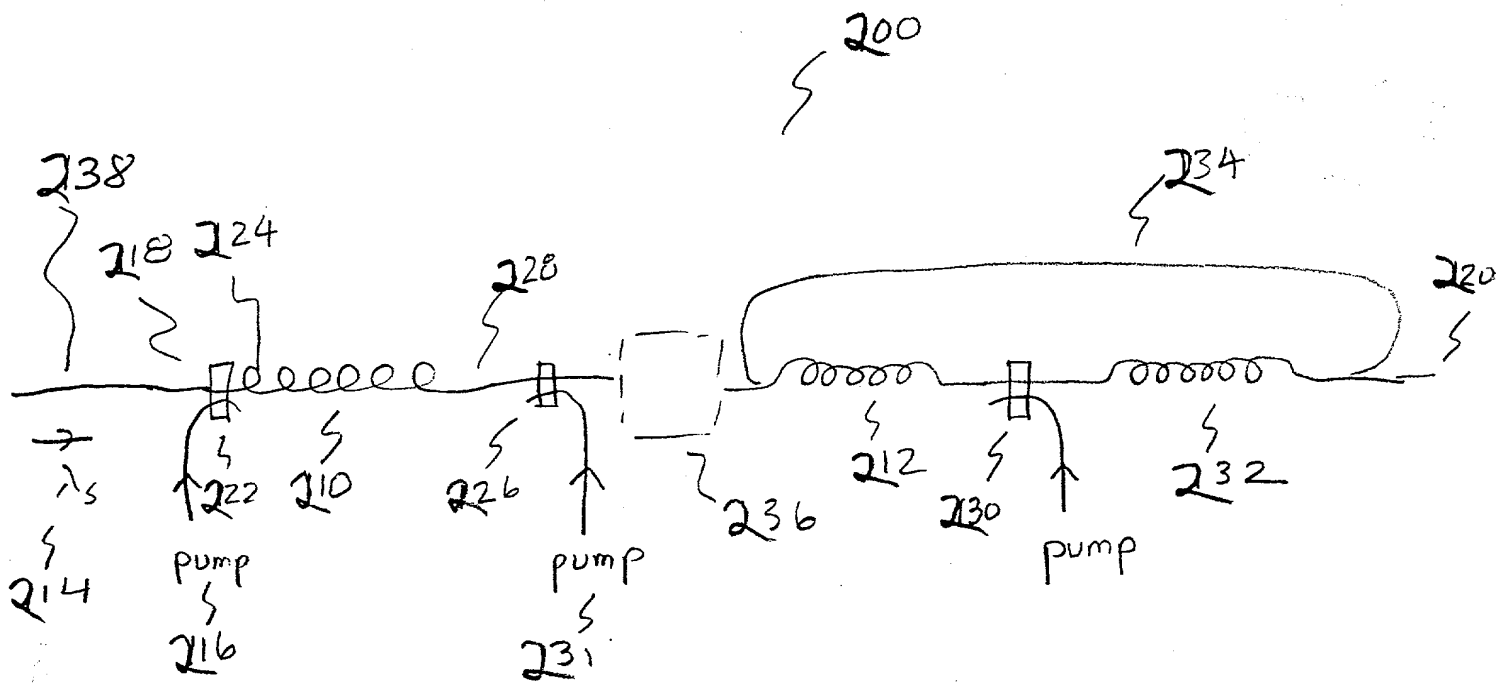


Fig 23 (b)

Transmitters

Receivers

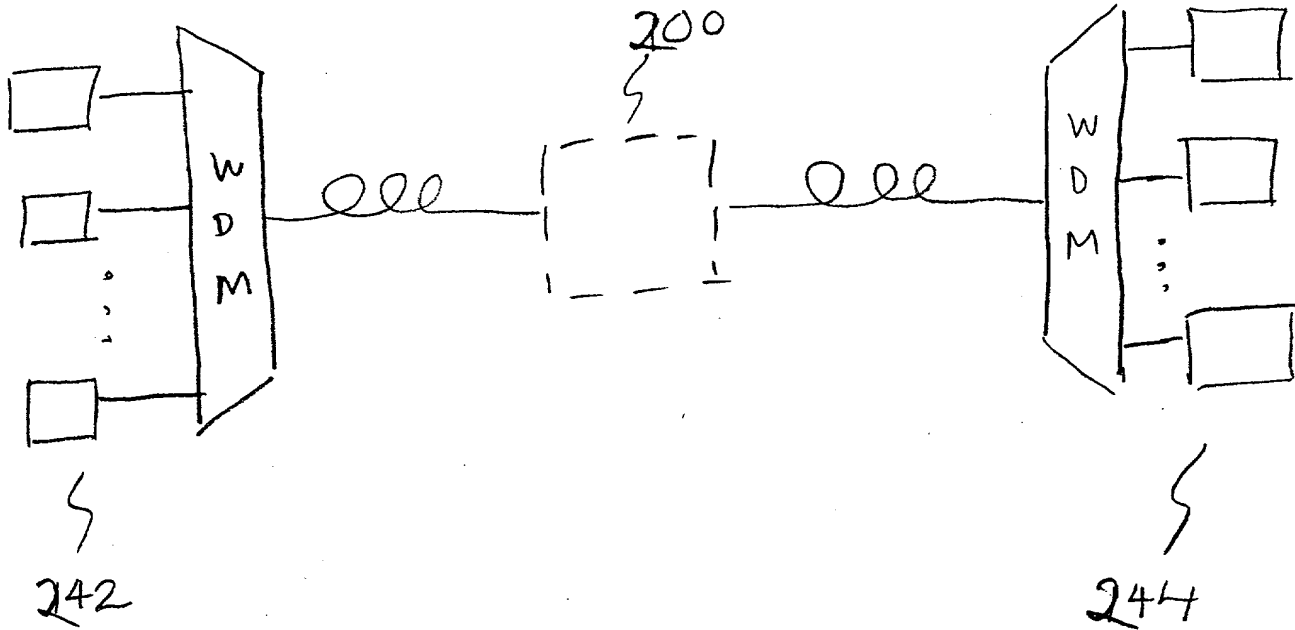


Fig 23.(c)

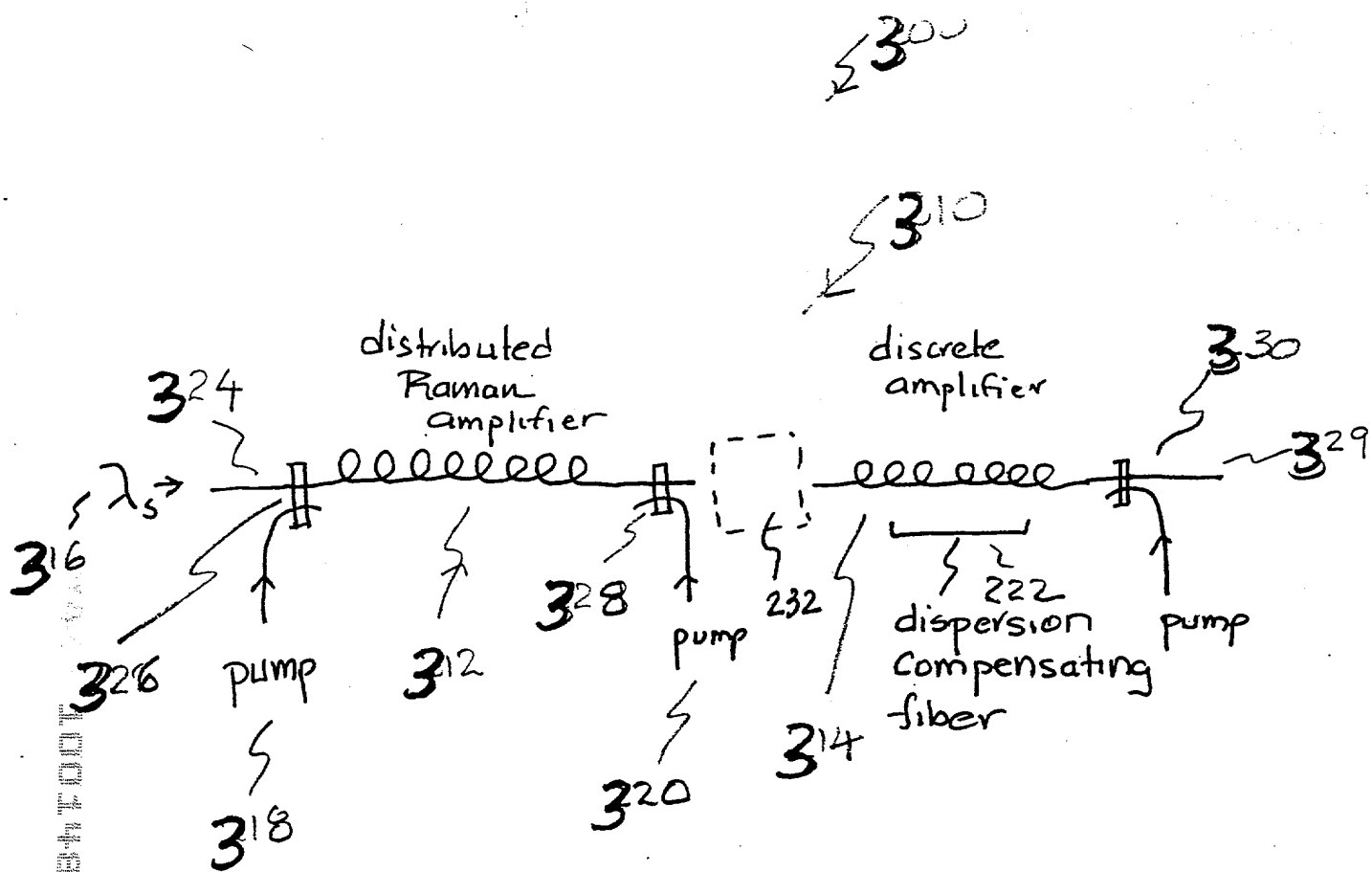


Fig 24(a)

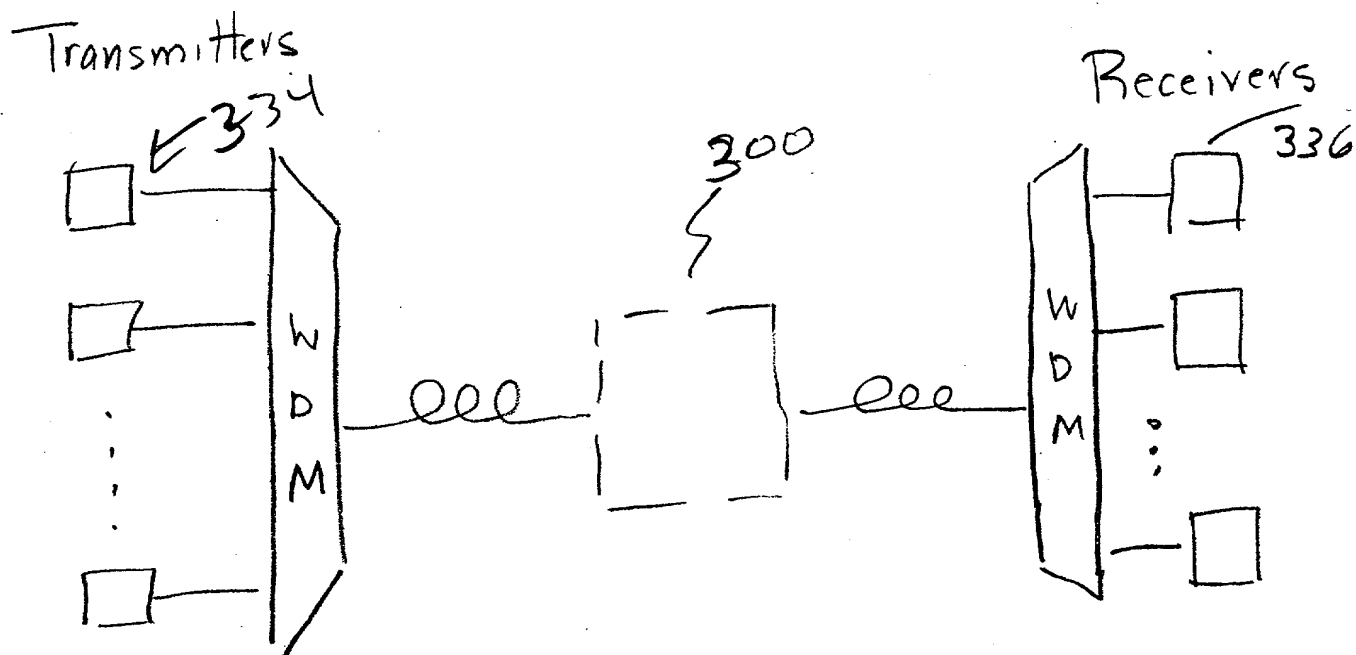


FIG. 24(b)

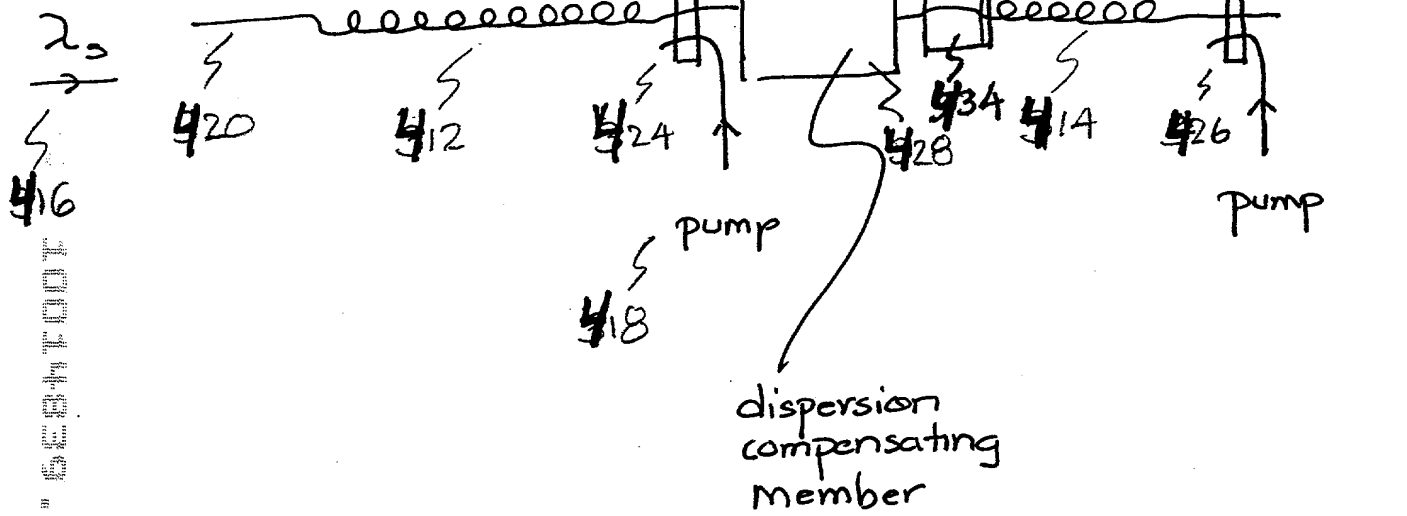


Fig 25(a)

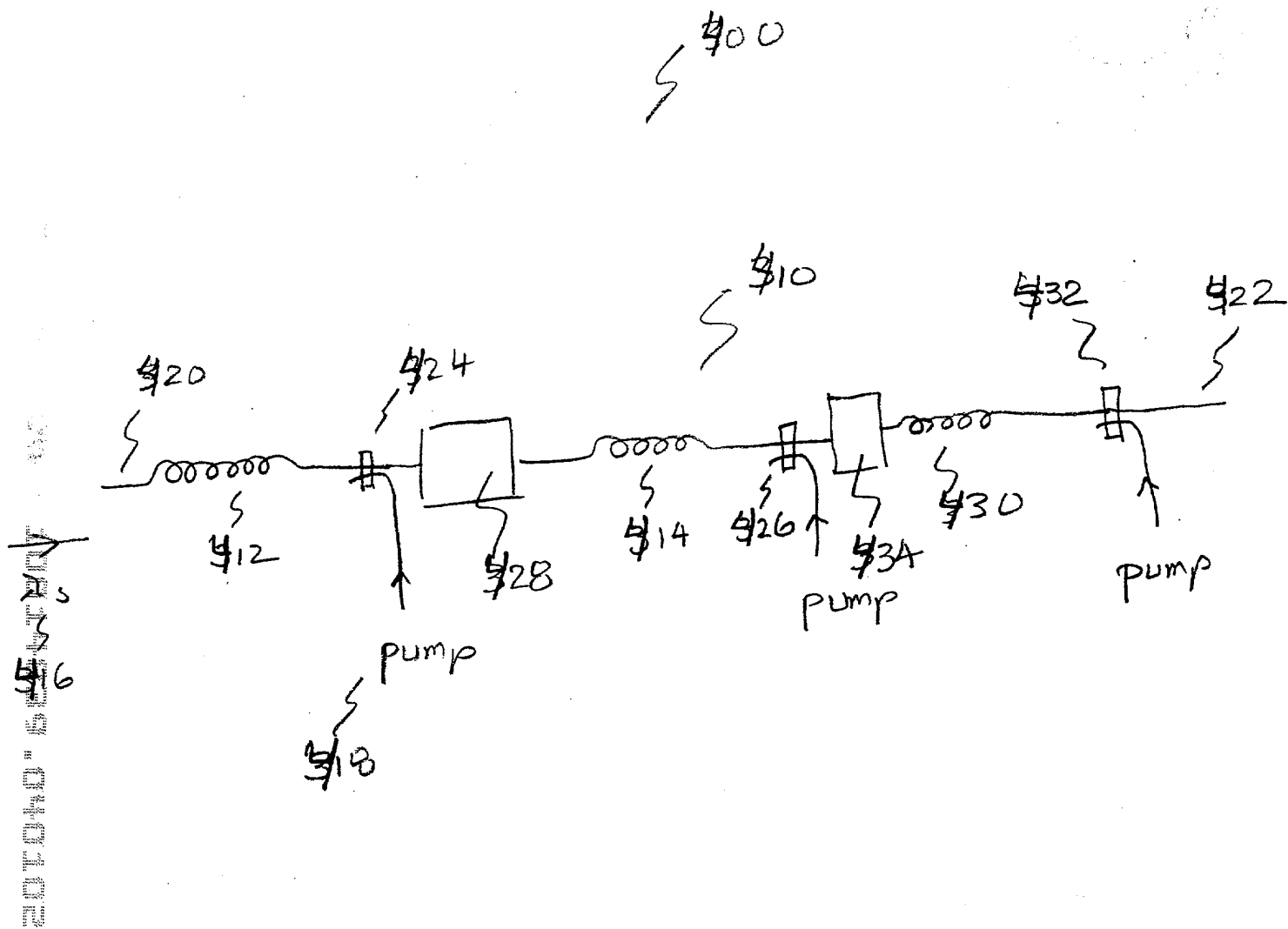


Fig. 25(b)



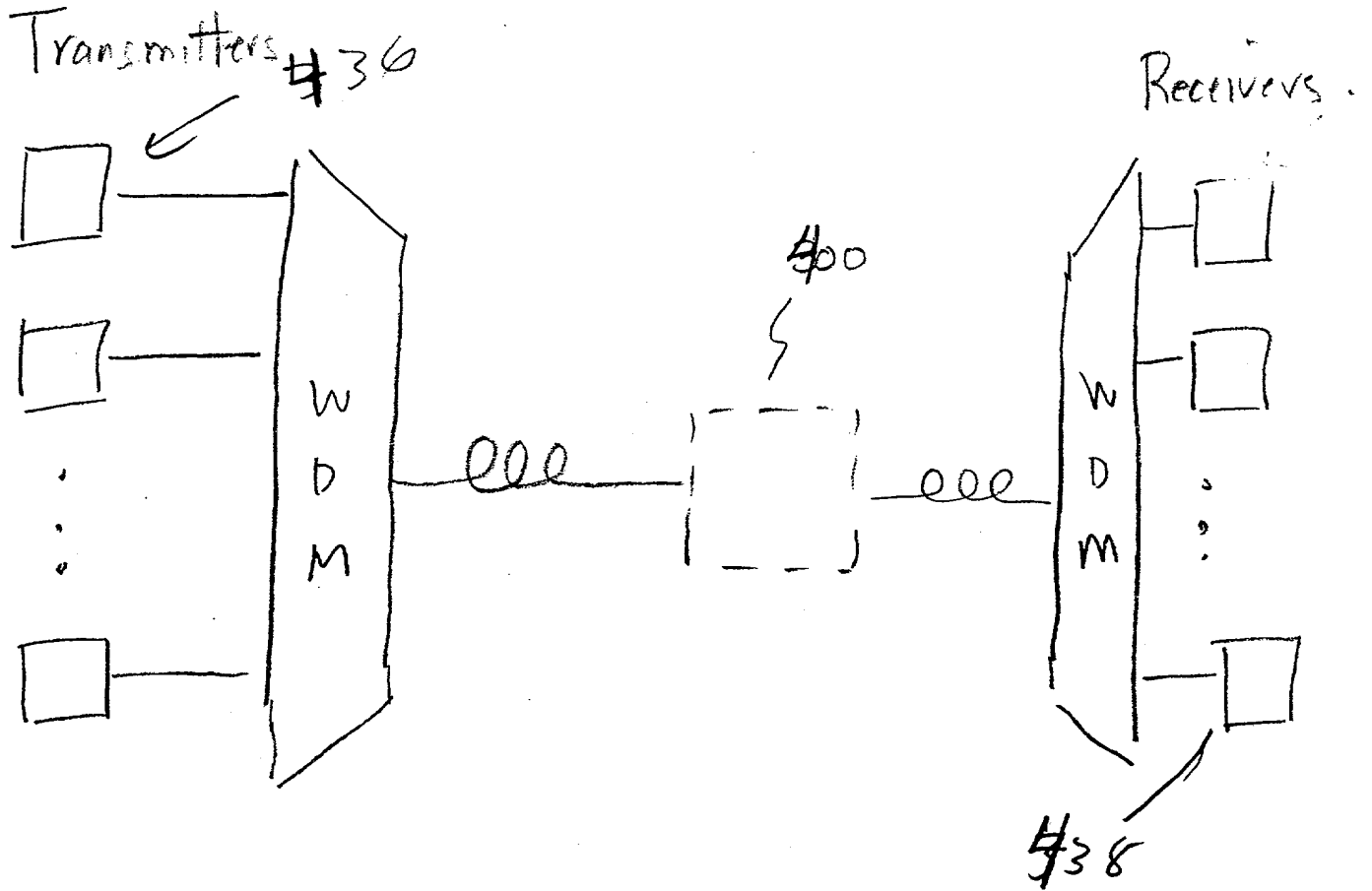


FIG 25.(C)

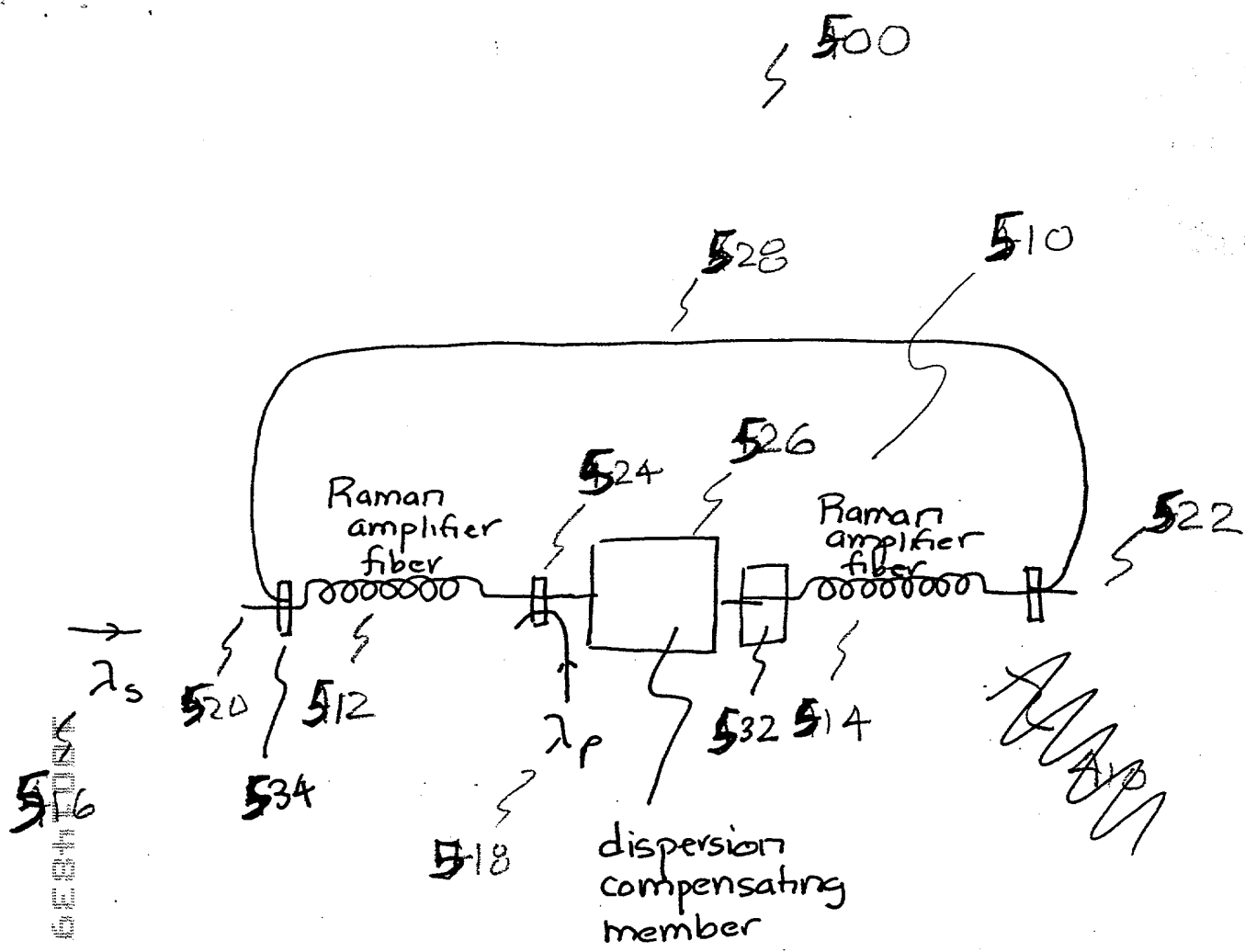


Fig 2 (a)

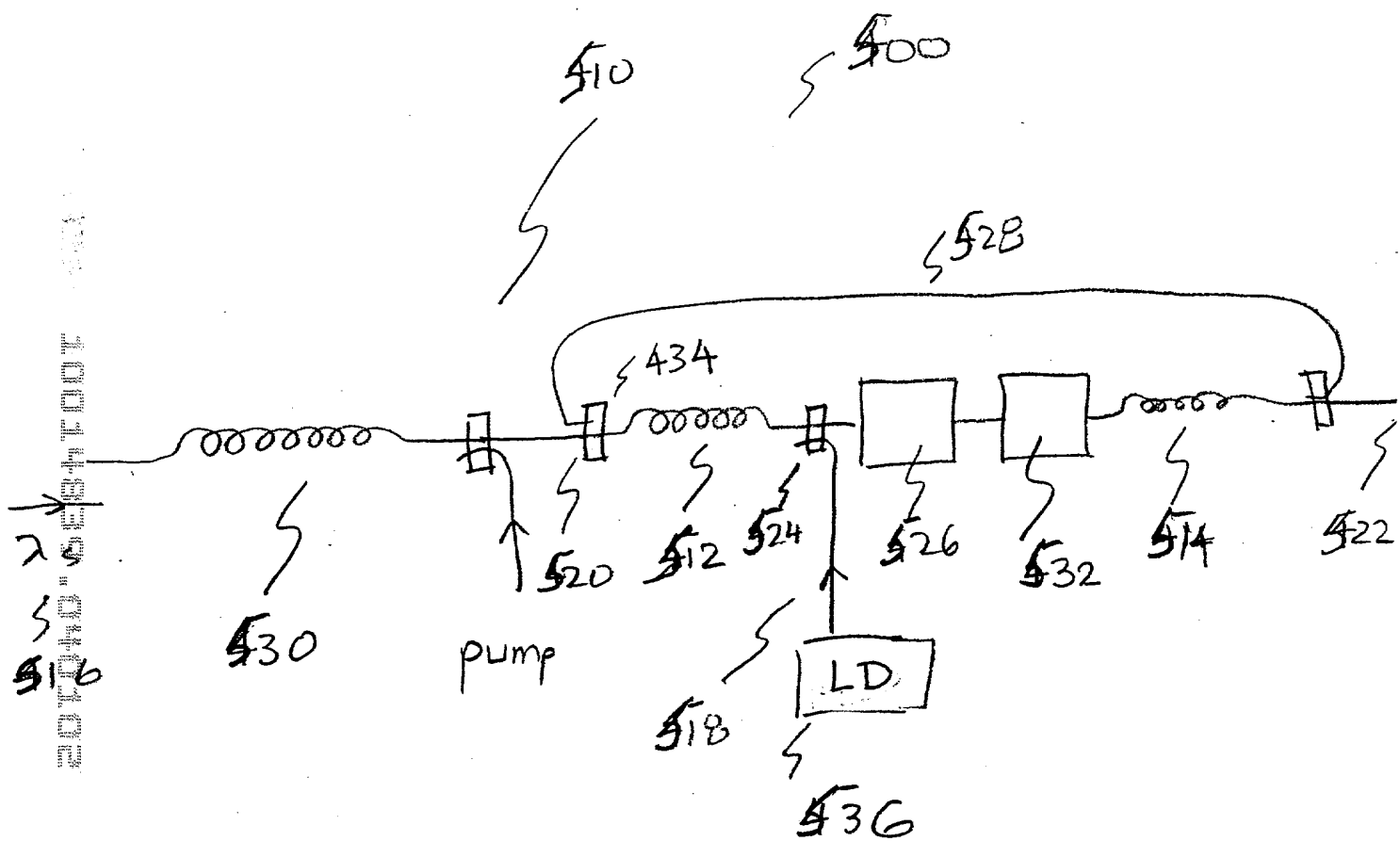


FIG 2-6 (b)

Transmitters

Receivers

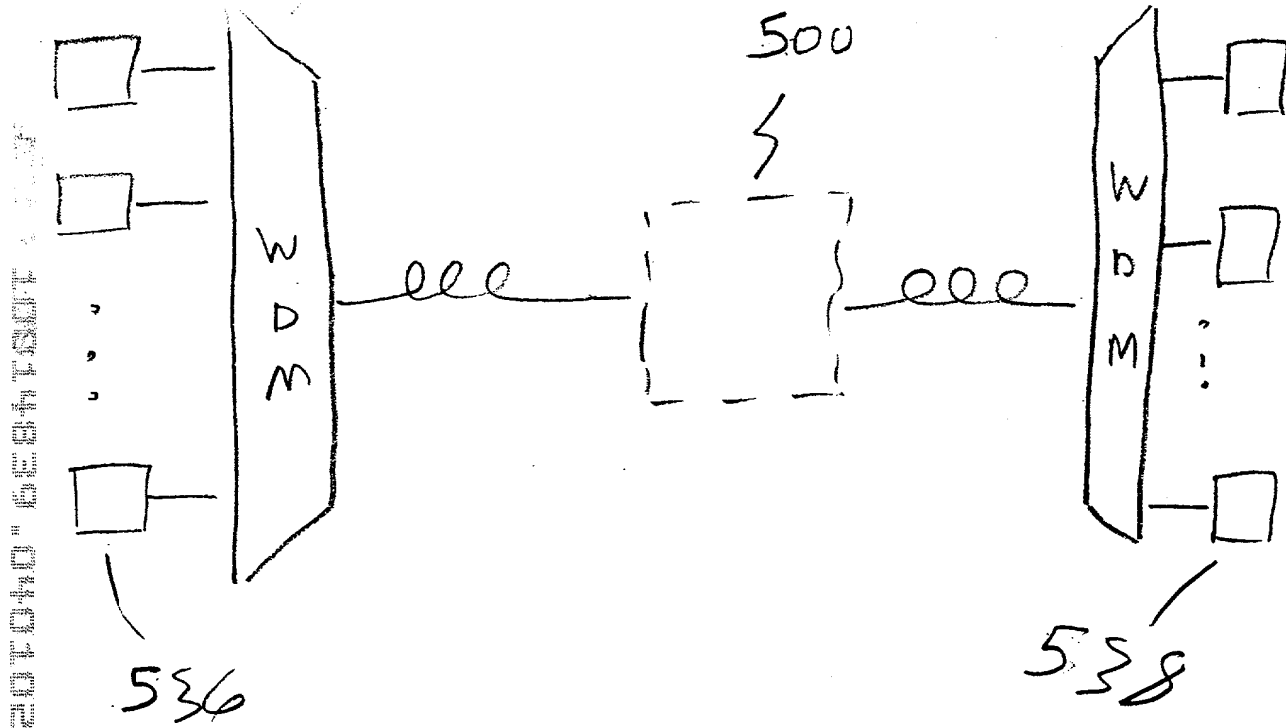


FIG. 26(c)